

In the Claims:

1. (Currently Amended) An ophthalmic shunt implantable in an eye, comprising:

an elongate body having a forward end, a spaced back end, and an insertion head extending from the forward end of the elongate body, the insertion head having a top surface and defining a shearing edge constructed and arranged for cutting eye tissue engaged thereby, the body having a substantially fusiform cross-sectional shape, the forward end and the insertion head of said body further defining a shoulder surface; and

a conduit having a first end defined on a portion of the top surface of said insertion head and extending through said body from the forward end to the back end thereof, the first end being spaced from the shearing edge and the shoulder surface of said body,

wherein the elongate body is configured to position at least a portion of the insertion head and the first end of the conduit through an incision formed by the shearing edge of the insertion head and into fluid communication with the anterior chamber of the eye and to seat at least a portion of the shoulder surface of the insertion head against the incision to seal the incision.

2. (Original) The shunt of Claim 1, wherein the elongate body has a lower surface, and wherein a portion of the insertion head is substantially co-planar to the lower surface thereof.

3. (Original) The shunt of Claim 1, wherein the elongate body has an arcuate shape along at least a portion of its length that is adapted to extend along the curvature of the sclera.

4. (Currently Amended) The shunt of Claim 1, wherein the elongate body has an upper surface and a spaced lower surface, and wherein at least one planar surface, configured to be grasped constructed and arranged for grasping by a surgical tool, is defined on at least a portion of at least one of the respective upper and lower surfaces of the elongate body.

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5. (Currently Amended) The shunt of Claim 1, wherein the elongate body has a longitudinal axis, and wherein a longitudinally extending groove, configured to be grasped ~~constructed and arranged for grasping~~ by a surgical tool, is defined on at least a portion of an exterior surface of the elongate body.
6. (Original) The shunt of Claim 5, wherein the elongate body has an upper surface and a spaced lower surface, and wherein the longitudinally extending groove is defined on at least a portion of the upper surface of the elongate body.
7. (Currently Amended) The shunt of Claim 6, wherein a planar surface, configured to be grasped ~~constructed and arranged for grasping~~ by the surgical tool, is defined on at least a portion of the lower surface of the elongate body.
8. (Currently Amended) The shunt of Claim 6, wherein a second longitudinally extending groove, configured to be grasped ~~constructed and arranged for grasping~~ by the surgical tool, is defined on at least a portion of the lower surface of the elongate body.
9. (Original) The shunt of Claim 1, wherein the first end of the conduit is positioned at an acute angle with respect to the top surface of the insertion head.
10. (Original) The shunt of Claim 1, wherein the elongate body is substantially rigid.
11. (Original) The shunt of Claim 1, wherein the elongate body is comprised of biocompatible materials.

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12. (Original) The shunt of Claim 1, wherein an exterior surface of the elongate body is non-porous.

13. (Currently Amended) The shunt of Claim 1, wherein the elongate body has a first elongate edge and a spaced second elongate edge, and wherein said body has at least a pair of spaced notches ~~bores configured to facilitate~~ ~~constructed and arranged for facilitating~~ suturing the elongate body to eye tissue, one notch of the pair of spaced notches being defined in each respective elongate edge.

14. (Currently Amended) The shunt of Claim 1, wherein the elongate body has an upper surface and a spaced lower surface, and wherein the body has at least a pair of spaced bores extending between the upper and lower surfaces of said body, the pair of spaced bores ~~configured to facilitate~~ ~~constructed and arranged for facilitating~~ suturing the elongate body to eye tissue.

15. (Currently Amended) The shunt of Claim 1, wherein the conduit comprises a wicking member ~~configured to regulate~~ ~~constructed and arranged for regulating~~ the flow of aqueous humor from an inlet end to an outlet end of the wicking member.

16. (Currently Amended) The shunt of Claim 1, further comprising a wicking member ~~configured to regulate~~ ~~constructed and arranged for regulating~~ the flow of aqueous humor from an inlet end to an outlet end of the wicking member, the wicking member disposed within at least a portion of the conduit.

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17. (Currently Amended) An ophthalmic shunt implantable in an eye, comprising:

a thin elongate body of a biocompatible material, the body having a forward end, a spaced back end, and a substantially fusiform cross-sectional shape, said body further comprising an insertion head extending from the forward end of the elongate body, the insertion head having a top surface and defining a shearing edge constructed and arranged for cutting eye tissue engaged thereby, the shearing edge having a substantially arcuate shape, the forward end and the insertion head of said body further defining a shoulder surface; and

a conduit defined on a portion of the top surface of said insertion head and extending through said body from the forward end to the back end thereof, the conduit having a first end that is spaced from the shearing edge,

wherein the elongate body is configured to position at least a portion of the insertion head and the first end of the conduit through an incision formed by the shearing edge of the insertion head and into fluid communication with the anterior chamber of the eye and to seat at least a portion of the shoulder surface of the insertion head against the incision to seal the incision.

18. (Original) The shunt of Claim 17, wherein the insertion head has a base portion having a first width, wherein the elongate body has a first elongate edge and a spaced second elongate edge, and wherein the first and second elongate edges are spaced a second width that is greater than said first width.

19. (Original) The shunt of Claim 17, wherein the elongate body has a lower surface, and wherein a portion of the insertion head is substantially co-planar to the lower surface thereof.

20. (Original) The shunt of Claim 17, wherein the elongate body has an arcuate shape along at least a portion of its length that is adapted to extend along the curvature of the sclera.

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21. (Currently Amended) The shunt of Claim 17, wherein the elongate body has an upper surface and a spaced lower surface, and wherein at least one planar surface, configured to be grasped ~~constructed and arranged for grasping~~ by a surgical tool, is defined on at least a portion of at least one of the respective upper and lower surfaces of the elongate body.
22. (Currently Amended) The shunt of Claim 17, wherein the elongate body has a longitudinal axis, and wherein a longitudinally extending groove, configured to be grasped ~~constructed and arranged for grasping~~ by a surgical tool, is defined on at least a portion of an exterior surface of the elongate body.
23. (Original) The shunt of Claim 22, wherein the elongate body has an upper surface and a spaced lower surface, and wherein the longitudinally extending groove is defined on at least a portion of the upper surface of the elongate body.
24. (Currently Amended) The shunt of Claim 23, wherein a planar surface, configured to be grasped ~~constructed and arranged for grasping~~ by a surgical tool, is defined on at least a portion of the lower surface of the elongate body.
25. (Original) The shunt of Claim 23, wherein a second longitudinally extending groove is defined on at least a portion of the lower surface of the elongate body.
26. (Original) The shunt of Claim 17, wherein an exterior surface of the elongate body is non-porous.
27. (Currently Amended) The shunt of Claim 17, wherein the elongate body has a first elongate edge and a spaced second elongate edge, and wherein said body has at least a pair of spaced

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notches configured to facilitate ~~constructed and arranged for facilitating~~ suturing the elongate body to eye tissue, one notch of the pair of spaced notches being defined in each respective elongate edge.

28. (Currently Amended) The shunt of Claim 17, wherein the elongate body has an upper surface and a spaced lower surface, and wherein the body has at least a pair of spaced bores extending between the upper and lower surfaces of said body, the pair of spaced bores configured to facilitate ~~constructed and arranged for facilitating~~ suturing the elongate body to eye tissue.

29. (Original) The shunt of Claim 17, wherein the elongate body has a length of such extent to extend from proximate the anterior chamber of the eye to the suprachoroidal space.

30. (Currently Amended) The shunt of Claim 17, wherein the conduit comprises a wicking member configured to regulate ~~constructed and arranged for regulating~~ the flow of aqueous humor from an inlet end to an outlet end of the wicking member.

31. (Currently Amended) The shunt of Claim 17, further comprising a wicking member configured to regulate ~~constructed and arranged for regulating~~ the flow of aqueous humor from an inlet end to an outlet end of the wicking member, the wicking member disposed within at least a portion of the conduit.

32. (Currently Amended) An ophthalmic shunt implantable in an eye, comprising:
a thin elongate body of biocompatible material, the body having a longitudinal axis, a forward end, a spaced back end, and a substantially fusiform cross-sectional shape, the body further comprising an insertion head extending from the forward end of the elongate body, the insertion head having a top surface and defining a shearing edge constructed and arranged for

cutting eye tissue engaged thereby, the body defining a longitudinally extending bore, a proximal end of the bore defined in the forward end of the body, the proximal end positioned adjacent a portion of the top surface of the insertion head, the forward end and the insertion head of said body further defining a shoulder surface; and

a tube of biocompatible material, the tube having a first end and a spaced second end, at least a portion of the tube positioned within the bore of said body such that the second end of the tube is adjacent a distal end of the bore of said body and such that the first end of the tube extends through the proximal end of the bore and overlies a portion of the top surface of the insertion head, the first end of the tube being spaced from the shearing edge and the shoulder surface of said body,

wherein the elongate body is configured to position at least a portion of the insertion head and the first end of the tube through an incision formed by the shearing edge of the insertion head and into fluid communication with the anterior chamber of the eye and to seat at least a portion of the shoulder surface of the insertion head against the incision to seal the incision.

33. (Original) The shunt of Claim 32, wherein the shearing edge has a substantially arcuate shape.

34. (Currently Amended) An ophthalmic shunt implantable in an eye, comprising:

a thin elongate body of biocompatible material, the body having a longitudinal axis, an upper surface, a forward end, a spaced back end, and an insertion head extending from the forward end of the elongate body, the insertion head having a top surface and defining a shearing edge constructed and arranged for cutting eye tissue engaged thereby, the upper surface of the body defining a longitudinally extending slit, the forward end and the insertion head of said body further defining a shoulder surface; and

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a wicking member having an inlet end and an outlet end, the wicking member configured to regulate ~~constructed and arranged for regulating~~ the flow of aqueous humor from the inlet end to the outlet end and for positioning within at least a portion of the slit of said body and overlying a portion of the top surface of the insertion head, the inlet end of the wicking member being spaced from the shearing edge of said body,

wherein the elongate body is configured to position at least a portion of the insertion head and the inlet end of the wicking member through an incision formed by the shearing edge of the insertion head and into fluid communication with the anterior chamber of the eye and to seat at least a portion of the shoulder surface of the insertion head against the incision to seal the incision.

35. (Original) The shunt of Claim 34, wherein the shearing edge has a substantially arcuate shape.

36. (Original) The shunt of Claim 34, wherein the body has a substantially fusiform cross-sectional shape.

37. (Currently Amended) The shunt of Claim 34, wherein the elongate body has a lower surface, and wherein at least one planar surface, configured to be grasped ~~constructed and arranged for grasping~~ by a surgical tool, is defined on at least a portion of at least one of the respective upper and lower surfaces of the elongate body.

38. (Original) The shunt of Claim 37, wherein one planar surface is defined in a portion of the slit of said body.

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39. (Currently Amended) The shunt of Claim 34, wherein the elongate body has a longitudinal axis, and wherein a longitudinally extending groove, configured to be grasped ~~constructed and arranged for grasping~~ by a surgical tool, is defined on at least a portion of an exterior surface of the elongate body.

40. (Original) The shunt of Claim 34, wherein an exterior surface of the elongate body is non-porous.

41. (Currently Amended) The shunt of Claim 34, wherein the elongate body has a first elongate edge and a spaced second elongate edge, and wherein said body has at least a pair of spaced notches configured to facilitate ~~constructed and arranged for facilitating~~ suturing the elongate body to eye tissue, one notch of the pair of spaced notches being defined in each respective elongate edge.

42. (Currently Amended) The shunt of Claim 34, wherein the elongate body has a lower surface, and wherein the body has at least a pair of spaced bores extending between the upper and lower surfaces of said body, the pair of spaced bores configured to facilitate ~~constructed and arranged for facilitating~~ suturing the elongate body to eye tissue.

43. (Original) The shunt of Claim 34, wherein the elongate body has a length of such extent to extend from proximate the anterior chamber of the eye to the suprachoroidal space.

44. (Currently Amended) A method for lowering eye pressure in an eye, comprising:

- a. making a first incision in and through the conjunctiva and the sclera at a position posterior to the limbus;
- b. providing a biocompatible ophthalmic shunt comprising:
 - i. an elongate body having a forward end, a spaced back end, and an insertion head extending from the forward end of the elongate body, the insertion head having a top surface and defining a shearing edge constructed and arranged for cutting eye tissue engaged thereby, the forward end and the insertion head of said body defining a shoulder surface; and
 - ii. a conduit having a first end defined on a portion of the top surface of said insertion head and extending through said body from the forward end to the back end thereof, the first end being spaced from the shearing edge and the shoulder surface of said body, wherein the elongate body is configured to position at least a portion of the insertion head and the first end of the conduit through an incision formed by the shearing edge of the insertion head and into fluid communication with the anterior chamber of the eye and to seat at least a portion of the shoulder surface of the insertion head against the incision to seal the incision;
 - c. grasping a portion of the elongate body of the shunt;
 - d. disposing the insertion head of the shunt in and through the first incision and into the supraciliary space of the eye;
 - e. inserting at least a portion of the shearing edge of the insertion head of the shunt into and through the anterior chamber angle and into the anterior chamber of the eye so that the first end of the conduit is in fluid communication with the anterior chamber; and
 - f. forcing the insertion head anteriorly to seat the shoulder surface of the implant adjacent an interior surface of the supraciliary space of the eye; and
 - g. suturing the first incision closed.

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45. (Original) The method of Claim 44, further comprising suturing the implant to a portion of the sclera.

Claim 46 is cancelled.

47. (Currently Amended) A method for treating glaucoma in an eye, comprising:

- a. providing a biocompatible ophthalmic shunt comprising:
 - i. a thin elongate body of a biocompatible material, the body having a forward end, a spaced back end, and a substantially fusiform cross-sectional shape, said body further comprising an insertion head extending from the forward end of the elongate body, the insertion head having a top surface and defining a shearing edge constructed and arranged for cutting eye tissue engaged thereby, the shearing edge having a substantially arcuate shape, the forward end and the insertion head of said body defining a shoulder surface; and
 - ii. a conduit defined on a portion of the top surface of said insertion head and extending through said body from the forward end to the back end thereof, the conduit having a first end that is spaced from the shearing edge and the shoulder surface of said body, wherein the elongate body is configured to position at least a portion of the insertion head and the first end of the conduit through an incision formed by the shearing edge of the insertion head and into fluid communication with the anterior chamber of the eye and to seat at least a portion of the shoulder surface of the insertion head against the incision to seal the incision;
- b. inserting at least a portion of the shearing edge of the insertion head of the shunt into and through the anterior chamber angle and into the anterior chamber of the eye;

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c. disposing the first end of the conduit into fluid communication with the anterior chamber of the eye;

d. introducing the insertion head anteriorally to seat the shoulder surface of the implant adjacent an interior surface of the supraciliary space of the eye;

e. disposing the back end of the elongate body of the shunt into the suprachoroidal space of the eye so that a second end of the conduit is in fluid communication with the suprachoroidal space; and

f. d. securing the shunt to the eye by suturing a portion of the elongate body to the eye.

48. (Original) The method of Claim 47, wherein the shunt is sutured to a portion of the sclera.

Claim 49 is cancelled.

50. (Original) The method of Claim 47, further comprising, prior to the insertion of the insertion head into the anterior chamber making a first incision in and through the conjunctiva and the sclera at a position posterior to the limbus.

51. (New) The shunt of Claim 1, further comprising a means for regulating the flow of aqueous humor from the first end of the conduit to the back end thereof.

52. (New) The shunt of Claim 17, further comprising a means for regulating the flow of aqueous humor from the first end of the conduit to the back end thereof.

53. (New) The shunt of Claim 32, further comprising a means for regulating the flow of aqueous humor from the first end of the conduit to the back end thereof.

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54. (New) An ophthalmic shunt implantable in an eye, comprising:

an elongate body having a forward end, a spaced back end, and an insertion head extending from the forward end of the elongate body, the insertion head defining a shearing edge constructed and arranged for cutting eye tissue engaged thereby, the forward end and the insertion head of said body further defining a shoulder surface; and

a conduit having a first end defined on a portion of the insertion head and extending through said body from the forward end to the back end thereof, the first end of the conduit being spaced from the shearing edge and the shoulder surface of said body,

wherein the elongate body is configured to position at least a portion of the insertion head and the first end of the conduit through an incision formed by the shearing edge of the insertion head and into fluid communication with the anterior chamber of the eye and to seat at least a portion of the shoulder surface of the insertion head against the incision to seal the incision.

55. (New) The shunt of Claim 54, further comprising a means for regulating the flow of aqueous humor from the first end of the conduit to the back end thereof.

56. (New) The shunt of Claim 54, further comprising a means for grasping the elongate body.

57. (New) The shunt of Claim 54, further comprising a means for facilitating suturing the elongate body to eye tissue.

58. (New) The shunt of Claim 54, wherein the elongate body is substantially rigid.

59. (New) The shunt of Claim 54, wherein the elongate body is comprised of biocompatible materials.

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60. (New) The shunt of Claim 54, wherein the insertion head has a base portion having a first width, wherein the elongate body has a first elongate edge and a spaced second elongate edge, and wherein the first and second elongate edges are spaced a second width that is greater than said first width.

61. (New) The shunt of Claim 54, wherein the elongate body has a lower surface, and wherein a portion of the insertion head is substantially co-planar to the lower surface thereof.

62. (New) The shunt of Claim 54, wherein the elongate body has an arcuate shape along at least a portion of its length that is adapted to extend along the curvature of the sclera.

63. (New) The shunt of Claim 54, wherein the elongate body has a length of such extent to extend from proximate the anterior chamber of the eye to proximate the suprachoroidal space.

64. (New) The shunt of Claim 54, wherein the body has a substantially fusiform cross-sectional shape.

65. (New) An ophthalmic shunt implantable in an eye, comprising:

an elongate body of a biocompatible material, the body having a forward end, a spaced back end, said body further comprising an insertion head extending from the forward end of the elongate body, the insertion head defining a shearing edge constructed and arranged for cutting eye tissue engaged thereby, the shearing edge having a substantially arcuate shape, the forward end and the insertion head of said body further defining a shoulder surface; and

a conduit defined on a portion of the insertion head and extending through said body from the forward end to the back end thereof, the conduit having a first end that is spaced from the shearing edge,

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wherein the elongate body is configured to position at least a portion of the insertion head and the first end of the conduit through an incision formed by the shearing edge of the insertion head and into fluid communication with the anterior chamber of the eye and to seat at least a portion of the shoulder surface of the insertion head against the incision to seal the incision.

66. (New) The shunt of Claim 65, further comprising a means for regulating the flow of aqueous humor from the first end of the conduit to the back end thereof.

67. (New) The shunt of Claim 65, further comprising a means for grasping the elongate body.

68. (New) The shunt of Claim 65, further comprising a means for facilitating suturing the elongate body to eye tissue.

69. (New) The shunt of Claim 65, wherein the elongate body is substantially rigid.

70. (New) The shunt of Claim 65, wherein the elongate body is comprised of biocompatible materials.

71. (New) The shunt of Claim 65, wherein the insertion head has a base portion having a first width, wherein the elongate body has a first elongate edge and a spaced second elongate edge, and wherein the first and second elongate edges are spaced a second width that is greater than said first width.

72. (New) The shunt of Claim 65, wherein the elongate body has a lower surface, and wherein a portion of the insertion head is substantially co-planar to the lower surface thereof.

73. (New) The shunt of Claim 65, wherein the elongate body has an arcuate shape along at least a portion of its length that is adapted to extend along the curvature of the sclera.

74. (New) The shunt of Claim 65, wherein the elongate body has a length of such extent to extend from proximate the anterior chamber of the eye to proximate the suprachoroidal space.

75. (New) The shunt of Claim 65, wherein the body has a substantially fusiform cross-sectional shape.

76. (New) An ophthalmic shunt implantable in an eye, comprising:

an elongate body of biocompatible material, the body having a longitudinal axis, a forward end, a spaced back end, the body further comprising an insertion head extending from the forward end of the elongate body, the insertion head defining a shearing edge constructed and arranged for cutting eye tissue engaged thereby, the body defining a longitudinally extending bore, a proximal end of the bore defined in the forward end of the body, the proximal end positioned adjacent a portion of a surface of the insertion head, the forward end and the insertion head of said body further defining a shoulder surface; and

a tube of biocompatible material, the tube having a first end and a spaced second end, at least a portion of the tube positioned within the bore of said body such that the second end of the tube is adjacent a distal end of the bore of said body and such that the first end of the tube extends through the proximal end of the bore and overlies a portion of the surface of the insertion head, the first end of the tube being spaced from the shearing edge and the shoulder surface of said body,

wherein the elongate body is configured to position at least a portion of the insertion head and the first end of the tube through an incision formed by the shearing edge of the insertion head and into fluid communication with the anterior chamber of the eye and to seat at least a portion

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of the shoulder surface of the insertion head against the incision to seal the incision.

77. (New) The shunt of Claim 76, further comprising a means for regulating the flow of aqueous humor from the first end of the conduit to the back end thereof.

78. (New) The shunt of Claim 76, further comprising a means for grasping the elongate body.

79. (New) The shunt of Claim 76, further comprising a means for facilitating suturing the elongate body to eye tissue.

80. (New) The shunt of Claim 76, wherein the elongate body is substantially rigid.

81. (New) The shunt of Claim 76, wherein the elongate body is comprised of biocompatible materials.

82. (New) The shunt of Claim 76, wherein the insertion head has a base portion having a first width, wherein the elongate body has a first elongate edge and a spaced second elongate edge, and wherein the first and second elongate edges are spaced a second width that is greater than said first width.

83. (New) The shunt of Claim 76, wherein the elongate body has a lower surface, and wherein a portion of the insertion head is substantially co-planar to the lower surface thereof.

84. (New) The shunt of Claim 76, wherein the elongate body has an arcuate shape along at least a portion of its length that is adapted to extend along the curvature of the sclera.

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85. (New) The shunt of Claim 76, wherein the elongate body has a length of such extent to extend from proximate the anterior chamber of the eye to proximate the suprachoroidal space.

86. (New) The shunt of Claim 76, wherein the body has a substantially fusiform cross-sectional shape.